

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: 3/28/2000
 Edited by: [Signature]
 Verified by: [Signature] (STIC staff)

Serial Number: 09/386,450A

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

ENTERED
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☒ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

20
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

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 MAR 10 2000
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*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,450ADATE: 03/02/2000
TIME: 11:10:07

INPUT SET: S34871.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

1
2
3 (1) General Information:
4
5 (i) APPLICANT: H tten, Gertrud
6 Neidhardt, Helge
7 Paulista, Michael
8
9 (ii) TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
10 THE TGF- FAMILY
11
12 (iii) NUMBER OF SEQUENCES: 40
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP
16 (B) STREET: 655 Fifteenth Street N.W. Suite 330
17 (C) CITY: Washington
18 (D) STATE: D.C.
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 20005-5701
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: 09/386,450
30 (B) FILING DATE: 31-AUG-1999
31 (C) CLASSIFICATION:
32
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: 08/288,508
35 (B) FILING DATE: 10-AUG-1994
36
37 (vii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: DE P 43 26 829.3
39 (B) FILING DATE: 10-AUG-1993
40
41 (vii) PRIOR APPLICATION DATA:
42 (A) APPLICATION NUMBER: DE P 44 18 222.8
43 (B) FILING DATE: 25-MAY-1994
44
45 (vii) PRIOR APPLICATION DATA:
46 (A) APPLICATION NUMBER: DE P 44 20 157.5

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MAR 10 2000
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,450ADATE: 03/02/2000
TIME: 11:10:07

INPUT SET: S34871.raw

47 (B) FILING DATE: 09-JUN-1994
48
49 (viii) ATTORNEY/AGENT INFORMATION:
50 (A) NAME: KITTS, Monica Chin
51 (B) REGISTRATION NUMBER: 36,105
52 (C) REFERENCE/DOCKET NUMBER: P564-9022
53
54 (ix) TELECOMMUNICATION INFORMATION:
55 (A) TELEPHONE: (202)638-5000
56 (B) TELEFAX: (202)638-4810
57
58 (2) INFORMATION FOR SEQ ID NO:1:
59
60 (i) SEQUENCE CHARACTERISTICS:
61 (A) LENGTH: 2703 base pairs
62 (B) TYPE: nucleic acid
63 (C) STRANDEDNESS: single
64 (D) TOPOLOGY: linear
65
66 (ii) MOLECULE TYPE: DNA
67
68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
69
70 CCATGGCCTC GAAAGGGCAG CGGTGATTTT TTTCACATAA ATATATCGCA CTTAAATGAG 60
71
72 TTTAGACAGC ATGACATCAG AGAGTAATTA AATTGGTTTG GGTGGAATT CCGTTTCCAA 120
73
74 TTCCTGAGTT CAGGTTTGTA AAAGATTTTT CTGAGCACCT GCAGGCCTGT GAGTGTGTGT 180
75
76 GTGTGTGTGT GTGTGTGTGT GTGTGTGTGA AGTATTTTCA CTGGAAGGA TTCAAAACTA 240
77
78 GGGGGAAAAA AAAACTGGAG CACACAGGCA GCATTACGCC ATTCTTCCTT CTTGGAAAAA 300
79
80 TCCCTCAGCC TTATACAAGC CTCCTTCAAG CCCTCAGTCA GTTGTGCAGG AGAAAGGGGG 360
81
82 CGGTTGGCTT TCTCCTTTCA AGAACGAGTT ATTTTCAGCT GCTGACTGGA GACGGTGCAC 420
83
84 GTCTGGATAC GAGAGCATTT CCACTATGGG ACTGGATACA AACACACACC CGGCAGACTT 480
85
86 CAAGAGTCTC AGACTGAGGA GAAAGCCTTT CTTTCTGCTG CTACTGCTGC TGCCGCTGCT 540
87
88 TTTGAAAGTC CACTCCTTTC ATGGTTTTTTC CTGCCAAACC AGAGGCACCT TTGCTGCTGC 600
89
90 CGCTGTTCTC TTTGGTGTCA TTCAGCGGCT GGCCAGAGGA TGAGACTCCC CAAACTCCTC 660
91
92 ACTTTCTTGC TTTGGTACCT GGCTTGCTG GACCTGGAAT TCATCTGCAC TGTGTTGGGT 720
93
94 GCCCCTGACT TGGGCCAGAG ACCCCAGGGG ACCAGGCCAG GATTGGCCAA AGCAGAGGCC 780
95
96 AAGGAGAGGC CCCCCCTGGC CCGGAACGTC TTCAGGCCAG GGGGTCACAG CTATGGTGGG 840
97
98 GGGGCCACCA ATGCCAATGC CAGGGCAAAG GGAGGCACCG GGCAGACAGG AGGCCTGACA 900
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,450ADATE: 03/02/2000
TIME: 11:10:07

INPUT SET: S34871.raw

100	CAGCCCAAGA	AGGATGAACC	CAAAAAGCTG	CCCCCAGAC	CGGGCGGGCC	TGAACCCAAG	960
101							
102	CCAGGACACC	CTCCCCAAAC	AAGGCAGGCT	ACAGCCCCGA	CTGTGACCCC	AAAAGGACAG	1020
103							
104	CTTCCCGGAG	GCAAGGCACC	CCCAAAAGCA	GGATCTGTCC	CCAGCTCCTT	CCTGCTGAAG	1080
105							
106	AAGGCCAGGG	AGCCCGGGCC	CCCACGAGAG	CCCAAGGAGC	CGTTTCGCCC	ACCCCCCATC	1140
107							
108	ACACCCACG	AGTACATGCT	CTCGCTGTAC	AGGACGCTGT	CCGATGCTGA	CAGAAAGGGA	1200
109							
110	GGCAACAGCA	GCGTGAAGTT	GGAGGCTGGC	CTGGCCAACA	CCATCACCAG	CTTTATTGAC	1260
111							
112	AAAGGGCAAG	ATGACCGAGG	TCCCGTGGTC	AGGAAGCAGA	GGTACGTGTT	TGACATTAGT	1320
113							
114	GCCCTGGAGA	AGGATGGGCT	GCTGGGGGCC	GAGCTGCGGA	TCTTGCGGAA	GAAGCCCTCG	1380
115							
116	GACACGGCCA	AGCCAGCGGC	CCCCGGAGGC	GGGCGGGCTG	CCCAGCTGAA	GCTGTCCAGC	1440
117							
118	TGCCCCAGCG	GCCGGCAGCC	GGCCTCCTTG	CTGGATGTGC	GCTCCGTGCC	AGGCCTGGAC	1500
119							
120	GGATCTGGCT	GGGAGGTGTT	CGACATCTGG	AAGCTCTTCC	GAAACTTTAA	GAAGCTGGCC	1560
121							
122	CAGCTGTGCC	TGGAGCTGGA	GGCCTGGGAA	CGGGGCAGGG	CCGTGGACCT	CCGTGGCCTG	1620
123							
124	GGCTTCGACC	GCGCCGCCCG	GCAGGTCCAC	GAGAAGGCCC	TGTTCTTGGT	GTTTGGCCGC	1680
125							
126	ACCAAGAAAC	GGGACCTGTT	CTTTAATGAG	ATTAAGGCCC	GCTCTGGCCA	GGACGATAAG	1740
127							
128	ACCGTGTATG	AGTACCTGTT	CAGCCAGCGG	CGAAAACGGC	GGGCCCCACT	GGCCACTCGC	1800
129							
130	CAGGGCAAGC	GACCCAGCAA	GAACCTTAAG	GCTCGCTGCA	GTCGGAAGGC	ACTGCATGTC	1860
131							
132	AACTTCAAGG	ACATGGGCTG	GGACGACTGG	ATCATCGCAC	CCCTTGAGTA	CGAGGCTTTC	1920
133							
134	CACTGCGAGG	GGCTGTGCGA	GTTCCCATTG	CGCTCCCACC	TGGAGCCCAC	GAATCATGCA	1980
135							
136	GTCATCCAGA	CCCTGATGAA	CTCCATGGAC	CCCGAGTCCA	CACCACCCAC	CTGCTGTGTG	2040
137							
138	CCCACGCGGC	TGAGTCCCAT	CAGCATCCTC	TTCATTGACT	CTGCCAACAA	CGTGGTGTAT	2100
139							
140	AAGCAGTATG	AGGACATGGT	CGTGGAGTCG	TGTGGCTGCA	GGTAGCAGCA	CTGGCCCTCT	2160
141							
142	GTCTTCCTGG	GTGGCACATC	CCAAGAGCCC	CTTCCTGCAC	TCCTGGAATC	ACAGAGGGGT	2220
143							
144	CAGGAAGCTG	TGGCAGGAGC	ATCTACACAG	CTTGGGTGAA	AGGGGATTCC	AATAAGCTTG	2280
145							
146	CTCGCTCTCT	GAGTGTGACT	TGGGCTAAAG	GCCCCCTTTT	ATCCACAAGT	TCCCCTGGCT	2340
147							
148	GAGGATTGCT	GCCCGTCTGC	TGATGTGACC	AGTGGCAGGC	ACAGGTCCAG	GGAGACAGAC	2400
149							
150	TCTGAATGGG	ACTGAGTCCC	AGGAAACAGT	GCTTTCCGAT	GAGACTCAGC	CCACCATTTT	2460
151							
152	TCCTCACCTG	GGCCTTCTCA	GCCTCTGGAC	TCTCCTAAGC	ACCTCTCAGG	AGAGCCACAG	2520

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,450A

DATE: 03/02/2000

TIME: 11:10:08

INPUT SET: S34871.raw

153
154 GTGCCACTGC CTCCTCAAAT CACATTTGTG CCTGGTGACT TCCTGTCCCT GGGACAGTTG 2580
155
156 AGAAGCTGAC TGGGCAAGAG TGGGAGAGAA GAGGAGAGGG CTTGGATAGA GTTGAGGAGT 2640
157
158 GTGAGGCTGT TAGACTGTTA GATTTAAATG TATATTGATG AGATAAAAAG CAAAACTGTG 2700
159
160 CCT 2703
161

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 501 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

153
154 Met Arg Leu Pro Lys Leu Leu Thr Phe Leu Leu Trp Tyr Leu Ala Trp
155 1 5 10 15
156 Leu Asp Leu Glu Phe Ile Cys Thr Val Leu Gly Ala Pro Asp Leu Gly
157 20 25 30
158 Gln Arg Pro Gln Gly Thr Arg Pro Gly Leu Ala Lys Ala Glu Ala Lys
159 35 40 45
160 Glu Arg Pro Pro Leu Ala Arg Asn Val Phe Arg Pro Gly Gly His Ser
161 50 55 60
162 Tyr Gly Gly Gly Ala Thr Asn Ala Asn Ala Arg Ala Lys Gly Gly Thr
163 65 70 75 80
164 Gly Gln Thr Gly Gly Leu Thr Gln Pro Lys Lys Asp Glu Pro Lys Lys
165 85 90 95
166 Leu Pro Pro Arg Pro Gly Gly Pro Glu Pro Lys Pro Gly His Pro Pro
167 100 105 110
168 Gln Thr Arg Gln Ala Thr Ala Arg Thr Val Thr Pro Lys Gly Gln Leu
169 115 120 125
170 Pro Gly Gly Lys Ala Pro Pro Lys Ala Gly Ser Val Pro Ser Ser Phe
171 130 135 140
172 Leu Leu Lys Lys Ala Arg Glu Pro Gly Pro Pro Arg Glu Pro Lys Glu
173 145 150 155 160
174 Pro Phe Arg Pro Pro Pro Ile Thr Pro His Glu Tyr Met Leu Ser Leu
175 165 170 175
176
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/386,450A

DATE: 03/02/2000

TIME: 11:10:08

INPUT SET: S34871.raw

206	Tyr Arg Thr Leu Ser Asp Ala Asp Arg Lys Gly Gly Asn Ser Ser Val	
207		180 185 190
208		
209	Lys Leu Glu Ala Gly Leu Ala Asn Thr Ile Thr Ser Phe Ile Asp Lys	
210		195 200 205
211		
212	Gly Gln Asp Asp Arg Gly Pro Val Val Arg Lys Gln Arg Tyr Val Phe	
213		210 215 220
214		
215	Asp Ile Ser Ala Leu Glu Lys Asp Gly Leu Leu Gly Ala Glu Leu Arg	
216		225 230 235 240
217		
218	Ile Leu Arg Lys Lys Pro Ser Asp Thr Ala Lys Pro Ala Ala Pro Gly	
219		245 250 255
220		
221	Gly Gly Arg Ala Ala Gln Leu Lys Leu Ser Ser Cys Pro Ser Gly Arg	
222		260 265 270
223		
224	Gln Pro Ala Ser Leu Leu Asp Val Arg Ser Val Pro Gly Leu Asp Gly	
225		275 280 285
226		
227	Ser Gly Trp Glu Val Phe Asp Ile Trp Lys Leu Phe Arg Asn Phe Lys	
228		290 295 300
229		
230	Asn Ser Ala Gln Leu Cys Leu Glu Leu Glu Ala Trp Glu Arg Gly Arg	
231		305 310 315 320
232		
233	Ala Val Asp Leu Arg Gly Leu Gly Phe Asp Arg Ala Ala Arg Gln Val	
234		325 330 335
235		
236	His Glu Lys Ala Leu Phe Leu Val Phe Gly Arg Thr Lys Lys Arg Asp	
237		340 345 350
238		
239	Leu Phe Phe Asn Glu Ile Lys Ala Arg Ser Gly Gln Asp Asp Lys Thr	
240		355 360 365
241		
242	Val Tyr Glu Tyr Leu Phe Ser Gln Arg Arg Lys Arg Arg Ala Pro Leu	
243		370 375 380
244		
245	Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala Arg Cys	
246		385 390 395 400
247		
248	Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp Asp Asp	
249		405 410 415
250		
251	Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu Gly Leu	
252		420 425 430
253		
254	Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala Val	
255		435 440 445
256		
257	Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro Pro Thr	
258		450 455 460

INPUT SET: S34871.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

631 (2) INFORMATION FOR SEQ ID NO:21:

632

633 (i) SEQUENCE CHARACTERISTICS:

634 (A) LENGTH: 22 base pairs

635 (B) TYPE: nucleic acid

636 (C) STRANDEDNESS: single

637 (D) TOPOLOGY: linear

638

639 (ii) MOLECULE TYPE: DNA

640

641 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

642

643 ATATTGGCTG GAGTGAATGG AT

22

644

631 (2) INFORMATION FOR SEQ ID NO:21:

632

633 (i) SEQUENCE CHARACTERISTICS:

634 (A) LENGTH: 22 base pairs

635 (B) TYPE: nucleic acid

636 (C) STRANDEDNESS: single

637 (D) TOPOLOGY: linear

638

639 (ii) MOLECULE TYPE: DNA

640

641 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

642

643 ATATTGGCTG GAGTGAATGG AT

22

644

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/386,450A

DATE: 03/02/2000
TIME: 11:10:09

INPUT SET: S34871.raw

Line

Error

Original Text

NA

1643

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,450ADATE: 02/29/2000
TIME: 01:00:22

INPUT SET: S34871.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

- 1
2
3 (1) General Information:
4
5 (i) APPLICANT: H tten, Gertrud
6 Neidhardt, Helge
7 Paulista, Michael
8
9 (ii) TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
10 THE TGF- FAMILY
11
12 (iii) NUMBER OF SEQUENCES: 40
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP
16 (B) STREET: 655 Fifteenth Street N.W. Suite 330
17 (C) CITY: Washington
18 (D) STATE: D.C.
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 20005-5701
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: 09/386,450
30 (B) FILING DATE: 31-AUG-1999
31 (C) CLASSIFICATION:
32
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: 08/288,508
35 (B) FILING DATE: 10-AUG-1994
36
37 (vii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: DE P 43 26 829.3
39 (B) FILING DATE: 10-AUG-1993
40
41 (vii) PRIOR APPLICATION DATA:
42 (A) APPLICATION NUMBER: DE P 44 18 222.8
43 (B) FILING DATE: 25-MAY-1994
44
45 (vii) PRIOR APPLICATION DATA:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,450ADATE: 02/29/2000
TIME: 01:00:22

INPUT SET: S34871.raw

46 (A) APPLICATION NUMBER: DE P 44 20 157.5
47 (B) FILING DATE: 09-JUN-1994
48
49 (viii) ATTORNEY/AGENT INFORMATION:
50 (A) NAME: KITTS, Monica Chin
51 (B) REGISTRATION NUMBER: 36,105
52 (C) REFERENCE/DOCKET NUMBER: P564-9022
53
54 (ix) TELECOMMUNICATION INFORMATION:
55 (A) TELEPHONE: (202)638-5000
56 (B) TELEFAX: (202)638-4810
57

ERRORED SEQUENCES FOLLOW:

20

--> 617 (2) INFORMATION FOR SEQ ID NO: 21:
618
619 (i) SEQUENCE CHARACTERISTICS:
620 (A) LENGTH: 22 base pairs
621 (B) TYPE: nucleic acid
622 (C) STRANDEDNESS: single
623 (D) TOPOLOGY: linear
624
625 (ii) MOLECULE TYPE: DNA
626
627 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
628
629 ACGTGGGGTG GAATGACTGG AT 22
630
--> 631 (2) INFORMATION FOR SEQ ID NO:21:
632
633 (i) SEQUENCE CHARACTERISTICS:
634 (A) LENGTH: 22 base pairs
635 (B) TYPE: nucleic acid
636 (C) STRANDEDNESS: single
637 (D) TOPOLOGY: linear
638
639 (ii) MOLECULE TYPE: DNA
640
641 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
642
643 ATATTGGCTG GAGTGAATGG AT 22
644

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/386,450A

DATE: 02/29/2000
TIME: 01:00:23

INPUT SET: S34871.raw

Line	Error	Original Text
617	Sequence 20 missing	(2) INFORMATION FOR SEQ ID NO:21:
627	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
631	Wrong Sequence Number	(2) INFORMATION FOR SEQ ID NO:21: